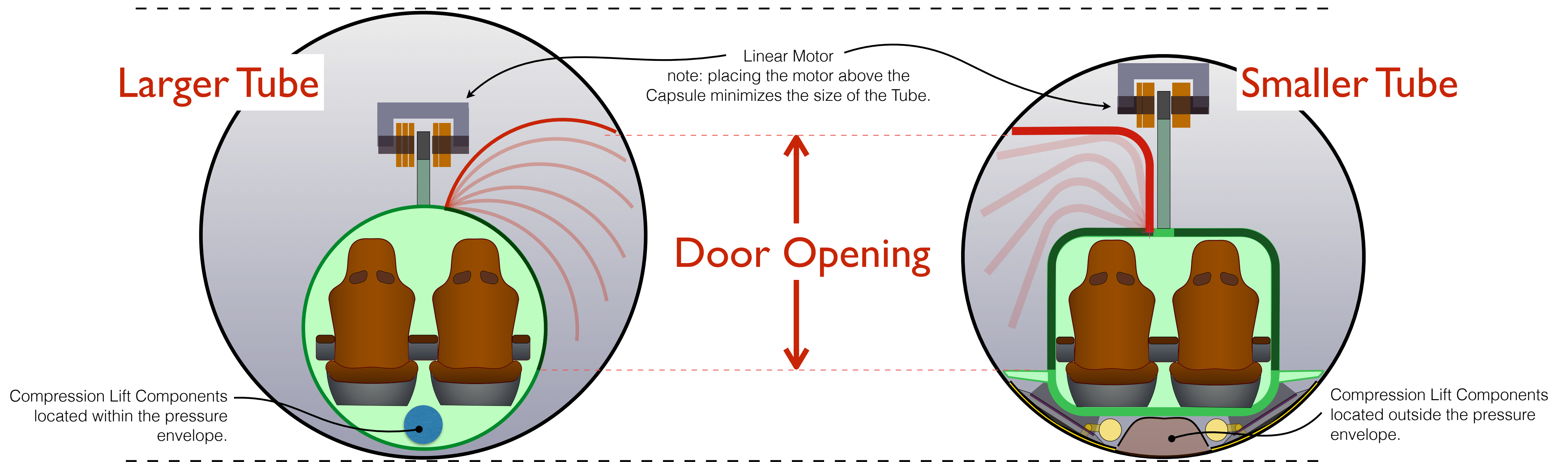


Hyperloop Configuration

System level performance, function and cost issues will drive lower level design, sometimes in ways that appear less than optimum when the low level design element is viewed in isolation.

Here are two examples.

Capsule Cross Section



Safety requires that passengers be able to exit the Capsule while the Capsule is inside an Airlock or Tube. A rectangular cross section Capsule meeting this requirement will fit in a substantially smaller Tube and the additional cost / weight of a rectangular cross section Capsule may be more than offset by the lower cost of the smaller Tube.

note: The rectangular cross section Capsule / Tube / Linear Motor are scaled to approximately Alpha Proposal dimensions.

Compression - Lift

- Minimize Pressure Ratio (Alpha Proposal 11 kPa) to limit:
 - Power / energy consumption
 - Adiabatic heating / inter-cooling requirements
- If we take 9.8 kPa as the ultimate pressure over the ski area at 3g's loading, then the vertically projected ski area is 3m²/tonne of gross Capsule weight. **This means the skis are really big!**